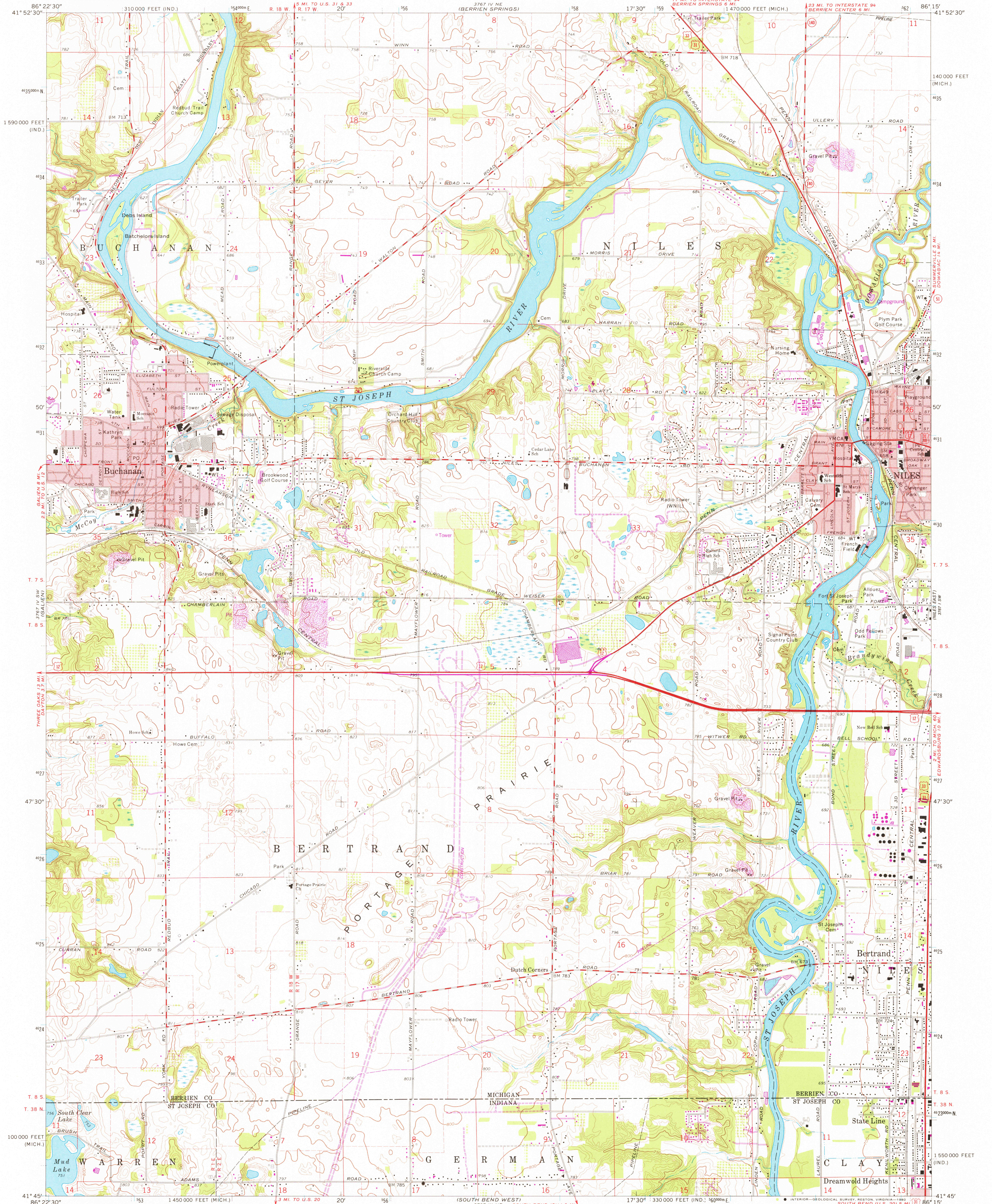


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

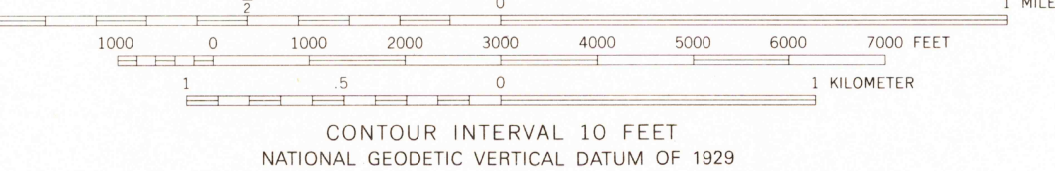
STATE OF MICHIGAN

NILES WEST QUADRANGLE
MICHIGAN-INDIANA
7.5 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited, and published by the Geological Survey in cooperation with State of Michigan agencies
Control by USGS and USC&GS
Topography of Michigan area by photogrammetric methods from aerial photographs taken 1969. Field checked 1971
Planimetry of Indiana area by photogrammetric methods from aerial photographs taken 1952. Topography by planimetric surveys 1957-58
Revised from aerial photographs taken 1969. Field checked 1971
Polyconic projection. 1927 North American datum
10,000-foot grids based on Michigan coordinate system, south zone and Indiana coordinate system, east zone
1000-meter Transverse Mercator grid ticks, zone 16, shown in blue
Red tint indicates areas in which only landmark buildings are shown
Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

UTM GRID AND 1980 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET
To place on the predicted North American Datum 1983 move the projection lines 1 meter north and 2 meters east as shown by dashed corner ticks



THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
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AND BY THE GEOLOGICAL SURVEY DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES, LANSING, MICHIGAN 48909
AND INDIANA DEPARTMENT OF NATURAL RESOURCES, INDIANAPOLIS, INDIANA 46204
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

Revisions shown in purple compiled from aerial photographs taken 1978. Map edited 1980
This information not field checked

ROAD CLASSIFICATION
Primary highway, hard surface
Secondary highway, hard surface
Light-duty road, hard or improved surface
Unimproved road
Interstate Route
U.S. Route
State Route
NILES WEST, MICH.-IND.
AUG 1 1 1980
2670
USGS
Historical File
Topographic Division
N4145-W8615/7.5
1971
PHOTOREVISED 1980
DMA 3767 IV SE-SERIES V 862